BRUHAT BANGALORE MAHANAGARA PALIKE

DASARAHALLI ZONE

Name of Work: Improvements to Roads & drains in Krishne Gowda Layout & Nrupatunga Road in ward No 15 T.Dasarahalli

Sl	Description of Item	Unit	No	L	B	D	Est. Cost Rs 52.00 Lakhs Qty	Rate	Amount
1	KSRRB M200·Dismtling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonary, cement concrete, wood work,steel work, including T&P and scaffolding whereever necessary, sorting the dismanlet material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specification Lime/Cement concrete I. By Manual Means C. Prestressed /Reinforced cement concrete Grade M·20 & above (P·139, lt 18.19) PWD SR 2018·19								
	Nrupathunga road	Cum	1	390.00	1.00	0.15	58.50		
			2	390.00	0.15	0.75	87.75		
	Basic Rate	1589.00					146.25	1684.34	246335.00
	Add Area Weightage	95.34							
	Total	1684.34							
2	KSRRB M2100·10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 2100 (P.222/I.27.18) PWD · SR 2018·19)								
		Cum	1	390.00	1.00	0.15	58.50		
	Basic Rate	5115.00					58.50	5421.90	317181.00
	Add Area Weightage 6%	306.90							
	Total	5421.90							
3	KSRRB M2200·6. Supplying, fitting and placing TMT bar Fe 500 reinforcement in sub·structure complete as per drawing and Technical Specifications complete as per specificationsMORTH Specification No.1600 & 2200 [P. no.229 · I. no.28.8.2]PWD · SR 2018·19)								
		Tonne							
	Qty Vide Item No. 5		50	122.85			6142.50		
	Basic Rate	68233.00					6.14	72326.98	444268.00
	Add 6% A.W	4093.98							
	TOTAL	72326.98							
4	Removing & Refixing stone slabs of drains and pointing (PWD SR 2018·19, Page No.27, Item No. 5.33)								
	at Selected Roads	Sqm	1	395.00	0.90		355.50		
							355.50	111.30	39567.00
	Basic Rate	105.00							
	Add Area Weightage 6%	6.30							
	Total	111.30							

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Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
5	KSRRB 300 · Excavation for road, drains and similar works · KSRRB 300·1. Earthwork excavation by manual means in **Ordinary soil** involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3 (P.143/I.19.1 PWD -SR 2018-19)								
	Desilting of drain								
	3rd main	Cum.	2	50.00	0.75	0.20	15.00		
	2nd main		2	105.00	0.75	0.20	31.50		
	1st cross		2	142.00	0.75	0.20	42.60		
	2nd cross		2	141.00	0.75	0.20	42.30		
	Between 1st & 2nd		2	26.00	0.75	0.20	7.80		
	1st & 2nd dead end		2	26.00	0.75	0.20	7.80		
	Surya bakery road		2	131.00	0.75	0.20	39.30		
	KGL 1ST cross		2	57.00	0.75	0.20	17.10		
							203.40	137.80	28029.00
	Basic Rate	130.00							
	Add Area Weightage 6%	7.80							
	Total	137.80							
6	Providing and laying **plain/reinforced cement concrete** for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200.(PWD SR 2018·19 P.no·271, It No 37.59.20)								
		Cum	2	390.00	0.15	0.75	87.75		
			1	390.00	0.90	0.10	35.1		
							122.85	7070.20	868574.00
	Basic Rate	6670.00							
	Add Area Weightage 6%	400.20							
	Total	7070.20							
7	KSRRB 500·3. **Scarifying** existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100 m. sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM complete as per specifications (P.158/I.21.3 PWD -SR 2018·19)								
	3rd main	Sqm	2	50.00	1.00		100.00		
	2nd main		2	105.00	1.00		210.00		
	1st cross		2	142.00	1.00		284.00		
	2nd cross		2	141.00	1.00		282.00		
	Between 1st & 2nd		2	26.00	1.00		52.00		

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Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	1st & 2nd dead end		2	26.00	1.00		52.00		
	Surya bakery road		2	131.00	1.00		262.00		
	KGL 1ST cross		2	57.00	1.00		114.00		
	Basic Rate	126.00					1356.00	133.56	181107.00
	Add Area Weightage 6%	7.56							
	TOTAL	133.56							
8	Providing, laying, spreading and compacting graded stone aggregates to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Specification No. 406 with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work .(PWD SR 2018-19, P.No.155, I No.20.18)								
	3rd main	Cum	2	50.00	1.00	0.15	15.00		
	2nd main		2	105.00	1.00	0.15	31.50		
	1st cross		2	142.00	1.00	0.15	42.60		
	2nd cross		2	141.00	1.00	0.15	42.30		
	Between 1st & 2nd		2	26.00	1.00	0.15	7.80		
	1st & 2nd dead end		2	26.00	1.00	0.15	7.80		
	Surya bakery road		2	131.00	1.00	0.15	39.30		
	KGL 1ST cross		2	57.00	1.00	0.15	17.10		
							203.40	2001.28	407060.00
	Basic Rate	1888.00							
	Add Area Weightage 6%	113.28							
	Total	2001.28							
9	KSRRB M500-6 Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means. As per MORTH specification No. 502 (PWDSR 2018-19, P.No.158, I No.21.6)								
	3rd main	Sqm	2	50.00	1.00		100.00		
	2nd main		2	105.00	1.00		210.00		
	1st cross		2	142.00	1.00		284.00		
	2nd cross		2	141.00	1.00		282.00		
	Between 1st & 2nd		2	26.00	1.00		52.00		
	1st & 2nd dead end		2	26.00	1.00		52.00		
	Surya bakery road		2	131.00	1.00		262.00		
	KGL 1ST cross		2	57.00	1.00		114.00		
							1356.00	26.50	35934.00
	As per issuse rate(dt: 20-05-2020)	25.00							
	Add Area Weightage 6%	1.50							
	Total	26.50							
10	KSRRB 500-16. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, Premixed with VG 30 grade bituminous binder & transporting the hot mix to work site laying to the required grade, level and alignment, rolling with smoothwheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specification. Clause 505 of MORTH V revision using 40/60 TPH Capacity H.M.P with Mechanical paver Gr-II (50mm to 75mm) (PWDSR 2018-19, P.No.160, I No.21.17.6)								
	3rd main	Cum	2	50.00	1.00	0.05	5.00		
	2nd main		2	105.00	1.00	0.05	10.50		
	1st cross		2	142.00	1.00	0.05	14.20		
	2nd cross		2	141.00	1.00	0.05	14.10		
	Between 1st & 2nd		2	26.00	1.00	0.05	2.60		

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Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	1st & 2nd dead end		2	26.00	1.00	0.05	2.60		
	Surya bakery road		2	131.00	1.00	0.05	13.10		
	KGL 1ST cross		2	57.00	1.00	0.05	5.70		
	As per issuse rate(dt: 20-05-2020)	5403.00					67.80	5727.18	388303.00
	Add Area Weightage 6%	324.18							
	Total	5727.18							
11	KSRRB M500-10 Tack Coat: Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom. complete as per specifications. MORTH Specification No. 503 of MORTH V revision (PWD SR 2018-19, Page No.159, Item No. 21.10)								
	3rd main	Sqm	1	50.00	4.70		235.00		
	2nd main		1	105.00	4.70		493.50		
	1st cross		1	142.00	4.50		639.00		
	2nd cross		1	141.00	4.50		634.50		
	Between 1st & 2nd		1	26.00	4.50		117.00		
	1st & 2nd dead end		1	26.00	4.50		117.00		
	Surya bakery road		1	131.00	4.70		615.70		
	KGL 1ST cross		1	57.00	3.50		199.50		
							3051.20	10.60	32343.00
	As per issuse rate(dt: 20-05-2020)	10.00							
	Add Area Weightage 6%	0.60							
	Total	10.60							
12	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V Revision as per IRC SP-53-2015 using 40-60 TPH capacity HMP with mechanical paver grading II Cum (30-45mm) with 5.4 % of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) (p-171, lt 21.78.12) PWD SR 2018-19)								
	3rd main	Cum	1	50.00	4.70	0.04	9.40		
	2nd main		1	105.00	4.70	0.04	19.74		
	1st cross		1	142.00	4.50	0.04	25.56		
	2nd cross		1	141.00	4.50	0.04	25.38		
	Between 1st & 2nd		1	26.00	4.50	0.04	4.68		
	1st & 2nd dead end		1	26.00	4.50	0.04	4.68		
	Surya bakery road		1	131.00	4.70	0.04	24.63		
	KGL 1ST cross		1	57.00	3.70	0.04	8.44		
	Cross roads		1	270.00	4.40	0.04	47.52		
							170.02	6761.74	1149658.00
	As per issuse rate(dt: 20-05-2020)	6379.00							
	Add Area Weightage 6%	382.74							
	Total	6761.74							
13	Providing and fixing precast RCC slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortar including from work lift charges, curing and concrete finished surface on both side etc.,								
	Missing Slabs	Sqm	1	200.00	0.90		180.00		
							180.00	1615.00	290700.00
	Data Rates Approved enclosed								

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Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
14	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 4 Km a) Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and unloading Page No. 136 Item No. 17.1 PWD SR 2018-19								
		Cum	Qty Vide Item No. 5				203.40	69.80	14197.00
	Loading and Unloading	57.00							
	Lead 4 KMs 2x1.28x4	12.80							
		69.80							
							Sub Total		4443256.00
15	Tender premium 5%								222163.00
16	GST 12%								533191.00
17	Miscellaneous and UnforessenCharges								1390.00
								Total	5200000.00
	Rupees fifty two lakhs Only								

CERTIFICATE:-

1 The Work spot has been inspected and the work is found to be necessary

2 The Estimate is prepared as per the PW,P & IWTD -SR-2018-19

3 The Provision made in estimate are adequate and essential.

4 This area comes under BBMP limits.

Assistant Engineer
Ward No 15

Assistant Executive Engineer
T. Dasarahalli Sub-Division
B.B.M.P

Executive Engineer
Dasarahalli Division
B.B.M.P. Bangalore.

ADMINISTRATIVELY SANCTIONED FOR
(Rupees Fifty two lakhs Rupees only
(52.00 lakhs)
Under the Head of Account P-3739
Special developments works
Registered as no EE(D.D)/AS Subject
to conditions contained in Enclosed Memo
No. EE/DD/HS/44/2020-21 Dt: 06/05/2020

Exe. Eng
JE/AE. (DASARAHALLI) BBMP

Technically Sanctioned For Rs: 52,00,000/-
Rs. In Words Fifty two lakhs only
Under P-3739
Job Code No. 015-20-000104
Registered as SE No. 37/2020-21 subject
to conditions contained in Enclosed Memo
No SE/02/TS/37/2020-21 Dt. 06/05/2020

AE/JE TA SE(D) 5/06

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